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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION		
10/559,092	08/24/2006	Peter Gamon Johns	MSX-104(US) 5957		
47670 KELLEY DRY	7590 06/29/2007 YE & WARREN LLP	EXAMINER			
400 ATLANTIC STREET			IP, SIKYIN		
13TH FLOOR STAMFORD,	CT 06901		ART UNIT	PAPER NUMBER	
,			1742		
•			MAIL DATE	DELIVERY MODE	
			06/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No	•	Applicant(s)					
Office Action Summary		10/559,092	JOHNS, PETER GAMON		GAMON				
		Examiner		Art Unit	T				
		Sikyin Ip		1742					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period for Reply									
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is not time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS Co 36(a). In no event, how will apply and will expire to cause the application	OMMUNICATION wever, may a reply be time SIX (6) MONTHS from to become ABANDONEI	N. hely filed the mailing date of this D (35 U.S.C. § 133).					
Status									
1)⊠	Responsive to communication(s) filed on 22 No	<u>ovember 2005</u> .							
,—	This action is FINAL . 2b)⊠ This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)🖂	Claim(s) 20-31 is/are pending in the application	n.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
·	☑ Claim(s) <u>20-31</u> is/are rejected.								
•	Claim(s) <u>20-31</u> is/are objected to.								
8)	8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	ion Papers								
9)	The specification is objected to by the Examine	er.							
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)	The oath or declaration is objected to by the Ex	xaminer. Note th	e attached Office	Action or form P	10-152.				
Priority (ınder 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:									
1.☐ Certified copies of the priority documents have been received.									
	2. Certified copies of the priority document			on No					
3.⊠ Copies of the certified copies of the priority documents have been received in this National Stage									
	application from the International Bureau								
* (See the attached detailed Office action for a list	of the certified o	opies not receive	ed.					
Attachmer	nt(s)								
1) 🛛 Notic	ce of References Cited (PTO-892)	4)	Interview Summary						
3) 🔯 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 11/22/05.	5) <u> </u>	Paper No(s)/Mail Da Notice of Informal P Other:						

Application/Control Number: 10/559,092

Art Unit: 1742

DETAILED ACTION

Claim Objections

Claims 20-31 are objected to because of the following informalities: The claimed Ag-Cu-Ge-B alloy is not "ternary alloy". It contains more than three elements.

Moreover, the transitional expression "comprising" includes unrecited ingredients in major amounts. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 20-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 02/095082 (PTO-1449), GB 2355990 (PTO-1449), or USP 6726877 to Eccles.

WO 02/095082 discloses the features including the claimed Ag based alloy (page 1, lines 25-29 and page 11, lines 29-31). GB 2355990 discloses the features including

Application/Control Number: 10/559,092

Art Unit: 1742

the claimed Ag based alloy (page 2, lines 8-16 and page 4, lines 20-23). Eccles discloses the features including the claimed Ag based alloy (col. 1, line 27 and col. 2, lines 55-65). Therefore, when prior art compounds essentially "bracketing" the claimed compounds in structural similarity are all known, one of ordinary skill in the art would clearly be motivated to make those claimed compounds in searching for new products in the expectation that compounds similar in structure will have similar properties. In re Gyurik, 596 F.2d 1012, 1018, 201 USPQ 552, 557 (CCPA 1979); See In re May, 574 F.2d 1082, 1094, 197 USPQ 601, 611 (CCPA 1978) and In re Hoch, 57 CCPA 1292, 1296, 428 F.2d 1341, 1344, 166 USPQ 406, 409 (1970). As stated in In re Peterson. 315 F.3d 1325, 1329-30, 65 USPQ2d 1379, 1382 (Fed. Cir. 2003), that "A prima facie case of obviousness typically exists when the ranges of a claimed composition overlap the ranges disclosed in the prior art". Therefore, it would have been obvious to one of ordinary skill in the art to select any portion of range, including the claimed range, from the broader range disclosed in a prior art reference because the prior art reference finds that the prior art composition in the entire disclosed range has a suitable utility. Also see MPEP § 2131.03 and § 2123.

Claims 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 02/095082 (PTO-1449), GB 2355990 (PTO-1449), or USP 6726877 to Eccles as applied to claims above, and further in view of GB 1130540.

WO 02/095082, GB 2355990, or Eccles discloses the features substantially as claimed as set forth in the rejection above except for surface treating of the silver alloy. However, GB 1130540 teaches to treating silver alloy surface with stearyl and cetyl mercaptans and thioglycollates (page 2, lines 16-38) in the same field of endeavor or

Application/Control Number: 10/559,092

Art Unit: 1742

the analogous metallurgical art. Therefore, it would have been obvious to one having ordinary skill in the art of the cited references at the time the invention was made to provide stearyl and cetyl mercaptans and thioglycollates as taught by GB 1130540 in order to provide a protective layer. In re Venner, 120 USPQ 193 (CCPA 1958), In re LaVerne, et al., 108 USPQ 335, and In re Aller, et al., 105 USPQ 233.

Conclusion

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See 37 C.F.R. § 1.121; 37 C.F.R. Part §41.37 (c)(1)(v); MPEP §714.02; and MPEP §2411.01(B).

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (571) 272-1241. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (571)-272-1244.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

Application/Control Number: 10/559,092 Page 5

Art Unit: 1742

published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SIKYIN IP PRIMARY EXAMINER ART UNIT 1742

S. lp June 23, 2007